Message

From: Glazer, Thomas [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP

(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=6578DEB6A4B042FFBE42A9854429FEB5-GLAZER, THO]

Sent: 9/26/2018 3:30:36 PM

To: Sweeney, Stephen [/o=ExchangeLabs/ou=Exchange Administrative Group

(FYDIBOHF23SPDLT)/cn=Recipients/cn=37ae2b769eab4231bdf19334e3651814-SSWEENEY]

Subject: RE: Ocean Acidification and Hypoxia Council makes first recommendations to State Legislature

Agree, but I don't think we can do this until we get clearer direction from management on the approach.

Tom Glazer USEPA Office of General Counsel Water Law Office 7426N WJC North (202) 564-0908

From: Sweeney, Stephen

Sent: Wednesday, September 26, 2018 11:23 AM **To:** Glazer, Thomas <glazer.thomas@epa.gov>

Subject: RE: Ocean Acidification and Hypoxia Council makes first recommendations to State Legislature

If its going to be tight, its worth considering whether to reach out to the NOI file Attorney Client / Deliberative Process / Ex. 5

Attorney Client / Deliberative Process / Ex. 5

Attorney Client / Deliberative Process / Ex. 5

Attorney Client / Deliberative Process / Ex. 5

From: Hunter, Christopher

Sent: Wednesday, September 26, 2018 11:15 AM

To: Glazer, Thomas <<u>glazer.thomas@epa.gov</u>>; Sweeney, Stephen <<u>Sweeney.Stephen@epa.gov</u>>; Cora, Lori <<u>Cora.Lori@epa.gov</u>>; Fullagar, Jill <<u>Fullagar.Jill@epa.gov</u>>

Subject: RE: Ocean Acidification and Hypoxia Council makes first recommendations to State Legislature

Jill is working to finalize the specific on the WQLS and Attorney Client / Deliberative Process / Ex. 5 and we are working on an action/briefing paper to evaluate our recommended resolution within the Regional and HQ management chain. It's going to be tight but we're hoping to get management ok to finalize the action before the NOI runs out.

Chris Hunter 202.566.1454 Watershed Branch, Office of Water US Environmental Protection Agency

From: Glazer, Thomas

Sent: Wednesday, September 26, 2018 10:43 AM

To: Sweeney, Stephen <Sweeney.Stephen@epa.gov>; Cora, Lori <Cora.Lori@epa.gov>; Fullagar, Jill

<<u>Fullagar.Jill@epa.gov</u>>; Hunter, Christopher <<u>Hunter.Christopher@epa.gov</u>>

Subject: RE: Ocean Acidification and Hypoxia Council makes first recommendations to State Legislature

Thanks, I wasn't referring to the thread specifically. I meant do we have a path forward on Oregon's list? The NOI runs in about a month. Attorney Client / Deliberative Process / Ex. 5

Tom Glazer USEPA Office of General Counsel Water Law Office 7426N WJC North (202) 564-0908

From: Sweeney, Stephen

Sent: Wednesday, September 26, 2018 10:40 AM

To: Glazer, Thomas <glazer.thomas@epa.gov>; Cora, Lori <Cora.Lori@epa.gov>; Fullagar, Jill <Fullagar.Jill@epa.gov>;

Hunter, Christopher < Hunter. Christopher@epa.gov>

Subject: RE: Ocean Acidification and Hypoxia Council makes first recommendations to State Legislature

The thread looks like an FYI.

Attorney Client / Deliberative Process / Ex. 5

Attorney Client / Deliberative Process / Ex. 5

My sense is that, at best.

Attorney Client / Deliberative Process / Ex. 5

Attorney Client / Deliberative Process / Ex. 5

about the context for my question).

Attorney Client / Deliberative Process / Ex. 5

Attorney Client / Deliberative Process / Ex. 5

Steve

From: Glazer, Thomas

Sent: Wednesday, September 26, 2018 10:34 AM

To: Cora, Lori <Cora, Lori@epa.gov>; Fullagar, Jill <Fullagar, Jill@epa.gov>; Hunter, Christopher

<Hunter.Christopher@epa.gov>

Cc: Sweeney, Stephen < Sweeney. Stephen@epa.gov >

Subject: RE: Ocean Acidification and Hypoxia Council makes first recommendations to State Legislature

Do we have a path forward on this action? What are the next steps?

Tom Glazer USEPA Office of General Counsel Water Law Office 7426N WJC North (202) 564-0908

From: Sweeney, Stephen

Sent: Friday, September 21, 2018 5:04 PM

To: Fullagar, Jill < Fullagar. Jill @epa.gov >; Cora, Lori < Cora. Lori@epa.gov >; Steiner-Riley, Cara < Steiner-

Riley.Cara@epa.gov>; Croxton, David <Croxton.David@epa.gov>; Hunter, Christopher <Hunter.Christopher@epa.gov>;

Glazer, Thomas <glazer.thomas@epa.gov>; Havard, James <Havard.James@epa.gov>

Subject: RE: Ocean Acidification and Hypoxia Council makes first recommendations to State Legislature

Did the report actually recommend any solutions or provide guidance to ODEQ under bullets #9 or #10?

From: Fullagar, Jill

Sent: Friday, September 21, 2018 4:58 PM

To: Cora, Lori <Cora, Lori@epa.gov>; Steiner-Riley, Cara <Steiner-Riley, Cara@epa.gov>; Croxton, David <<u>Croxton.David@epa.gov</u>>; Hunter, Christopher <<u>Hunter.Christopher@epa.gov</u>>; Glazer, Thomas <glazer.thomas@epa.gov>; Sweeney, Stephen <Sweeney.Stephen@epa.gov>; Havard, James <Havard.James@epa.gov> Subject: RE: Ocean Acidification and Hypoxia Council makes first recommendations to State Legislature

And the 4th and the 5th key areas....

Jill Fullagar, Impaired Waters Coordinator Watershed Unit, Office of Water and Watersheds US EPA, Region 10 1200 Sixth Avenue, Suite 155 (OWW-192) Seattle, WA 98101-3140 (206) 553-2582, (206) 553-1280 (fax) fullagar.jill@epa.gov

From: Cora, Lori

Sent: Friday, September 21, 2018 1:53 PM

To: Fullagar, Jill <Fullagar.Jill@epa.gov>; Steiner-Riley, Cara <Steiner-Riley.Cara@epa.gov>; Croxton, David <Croxton.David@epa.gov>; Hunter, Christopher <Hunter.Christopher@epa.gov>; Glazer, Thomas <glazer.thomas@epa.gov>; Sweeney, Stephen <Sweeney.Stephen@epa.gov>; Havard, James <Havard.James@epa.gov> Subject: RE: Ocean Acidification and Hypoxia Council makes first recommendations to State Legislature

Hmmmm, seems like listing on 303(d) list would be a start to implementing the second recommendation.

Lori Houck Cora | Assistant Regional Counsel U.S. Environmental Protection Agency | Region 10 P: (206) 553.1115 | F: (206) 553.1762 | cora.lori@epa.gov

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From: Fullagar, Jill

Sent: Friday, September 21, 2018 1:50 PM

To: Cora, Lori < Cora, Lori@epa.gov >; Steiner-Riley, Cara < Steiner-Riley, Cara@epa.gov >; Croxton, David <<u>Croxton.David@epa.gov</u>>; Hunter, Christopher <<u>Hunter, Christopher@epa.gov</u>>; Glazer, Thomas <glazer.thomas@epa.gov>; Sweeney, Stephen <Sweeney.Stephen@epa.gov>; Havard, James <Havard.James@epa.gov>

Subject: FW: Ocean Acidification and Hypoxia Council makes first recommendations to State Legislature

Just fyi

Jill Fullagar, Impaired Waters Coordinator Watershed Unit, Office of Water and Watersheds US EPA, Region 10 1200 Sixth Avenue, Suite 155 (OWW-192) Seattle, WA 98101-3140 (206) 553-2582, (206) 553-1280 (fax) fullagar.jill@epa.gov

From: ANTHONY Becky [mailto:Becky.Anthony@state.or.us]

Sent: Friday, September 14, 2018 3:16 PM

To: Fullagar, Jill <Fullagar.Jill@epa.gov>

Subject: FW: Ocean Acidification and Hypoxia Council makes first recommendations to State Legislature

Becky Anthony | WQ Assessment Program Lead
Oregon Dept. of Environmental Quality
4026 Fairview Industrial Drive SE | Salem, OR 97302
Email: anthony_becky@deq.state.or.us | Phone: 503-378-5319 (New Number)

From: Anthony, James L < Jamie. Anthony@oregonstate.edu>

Sent: Friday, September 14, 2018 10:29 AM

To: ANTHONY Becky <Becky.Anthony@state.or.us>

Subject: FW: Ocean Acidification and Hypoxia Council makes first recommendations to State Legislature

FYI

From: ODFW News [mailto:ODFW.News@state.or.us]

Sent: Friday, September 14, 2018 10:09 AM

To: ODFW All Staff < ODFW.AllStaff@coho2.dfw.state.or.us>

Subject: Ocean Acidification and Hypoxia Council makes first recommendations to State Legislature

NEWS RELEASE

Oregon Fish and Wildlife

Contacts:

Dr. Caren Braby (541) 961-5352

Dr. Jack Barth, jack.barth@oregonstate.edu, 541-737-1607

Sept. 14, 2018

Ocean Acidification and Hypoxia Council makes first recommendations to State Legislature

SALEM, Ore.— Oregon is among the first places to document the impacts of "ocean acidification"— what happens when human-produced carbon dioxide is absorbed by seawater, resulting in chemical reactions that change the water's pH and make it more acidic. Oregon is meeting this problem head on, most recently with the convening of the Oregon Coordinating Council on Ocean Acidification and Hypoxia.

Back in 2007, the Whiskey Creek Shellfish Hatchery lost 75 percent of the larvae it needs to produce oysters. Researchers and the oyster industry scrambled to find the cause, assuming it was bacterial contamination. But the problem was determined to be ocean acidification due to the summer upwelling of deep acidified ocean waters.

Over the last two decades, the coast has also experienced several "hypoxia" events, where low oxygen levels lead to the die-off of crabs and other marine life. While researchers and industry were able to mitigate for water chemistry in a closed-system like the hatchery, dealing with changes in open-ocean ecosystems is even more challenging.

In 2017, the Oregon State Legislature passed SB 1039 to create the Coordinating Council on Ocean Acidification and Hypoxia (OAH Council) to address these issues. OAH Council co-chairs, Caren Braby from Oregon Fish and Wildlife and Jack Barth from Oregon State University, note that there is a remarkable opportunity to help strengthen Oregon's ecosystem and the fishing and shellfish industries that rely on it.

"There are solutions within our reach," Braby said. Barth added, "There are local actions that are meaningful in fighting the global challenges of climate and ocean changes.

Today, the Council released its first bi-annual report.

The OAH Council met monthly from January to August 2018 to develop their report and made recommendations in five key areas:

- Strengthen the science, monitoring and search of ocean acidification and hypoxia by maintaining and expanding the robust monitoring network that captures OAH oceanographic trends;
- Reduce the causes of OAH by aligning with state and global efforts to reduce excess carbon dioxide and water pollutants that amplify impacts of OAH;
- Promote adaptation and resilience to OAH, for example by incorporating hotspot/refugia considerations into long-term planning for Oregon's Marine Reserves;
- Raise awareness of ocean acidification and hypoxia, the science behind it, impacts and solutions, and
- Commit resources to actions that could address OAH.

From among the 38 recommendations in the Council's report, the most immediate steps the Council recommends are:

- Support and maintain Oregon's monitoring of OAH oceanographic metrics and biological response metrics.
- Incorporate OAH into carbon dioxide management and mitigation discussions in the state.
- Support new initiatives to promote resilience of the ecosystem.
- Keep legislators and policy-makers up-to-date on the science, impacts and solutions for OAH.
- Develop high-level policy guidance for the state's government agencies on prioritizing OAH in agency workload.

"New research points to the an ever growing list of marine organisms known to be vulnerable to the threats of OAH, including species that underpin livelihoods and culture in Oregon like Dungeness crab, rockfish and salmon," said Dr. Francis Chan, an OSU researcher and co-chair of the recent West Coast Ocean Acidification and Hypoxia Science Panel. "Oregon is well-poised to act on these recommendations, thanks to its world-class ocean science facilities, expertise across universities and forward-thinking decision makers."

Over the next year, the OAH Council will be working with the Oregon Legislators, the Governor and the public to formulate Oregon's OAH Action Plan, to be finalized in 2019. For more information on the OAH Council or to get involved in Oregon's OAH Action Plan, please see <u>Council's web page</u>.

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